



PRODUCED AND FRAC WATER RE-USE

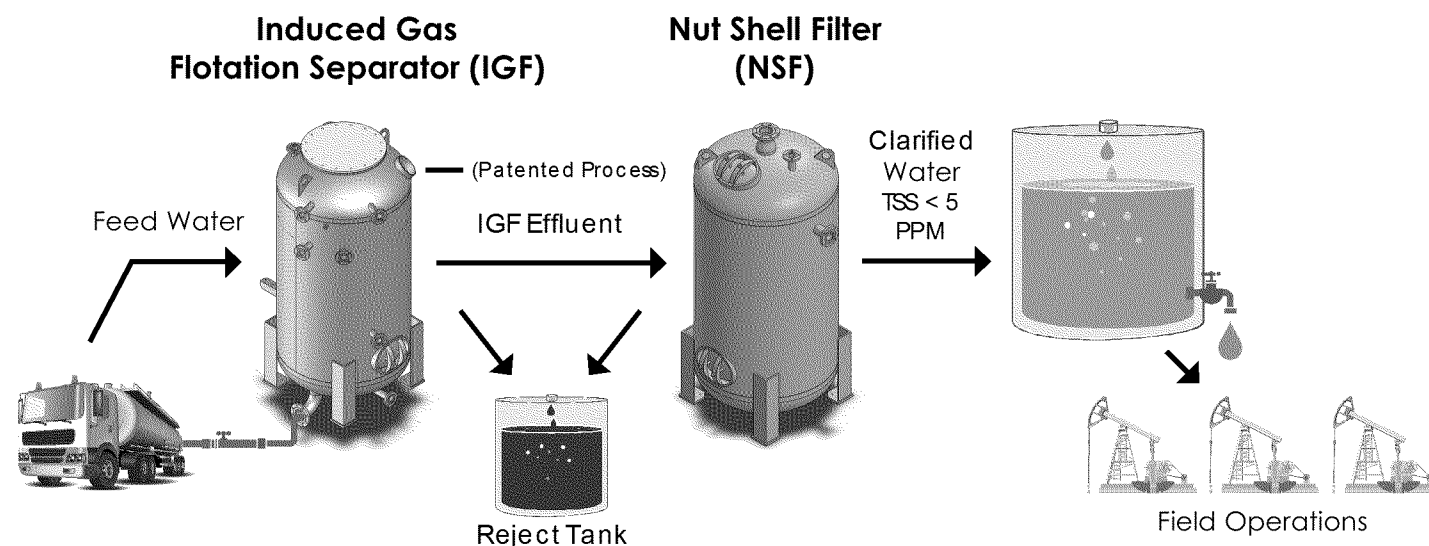
The Purestream Induced Gas Flotation (IGF) Plus Filtration is an effective and cost efficient water treatment solution for clarifying produced water to be re-used in fracing. Producers are consistently pleased with equipment performance, ease of operation, modularity, water quality and economics.

The mobile, IGF skid is capable of processing high volumes of input stream. IGF Plus effectively removes 99% of TSS, oil and grease, operates unmanned and may be remotely operated.

KEY FEATURES

- 50% lower cost versus other reuse processes
- Minimal labor requirements/remote monitoring
- High volume modular systems for scalability
- Consistent water quality and turbidity
- Easily integrated into existing operations
- Robust and reliable systems
- Purestream trademark expertise and service

+ SYSTEM FLOW DIAGRAM:



IGF+: TESTIMONIALS



"Our company saves money on water treatment with Purestream's system because it operates 24/7 virtually unmanned. The system is reliable and gives us consistent water quality day in, day out."



"When we knew we had issues with the water in our field, we were concerned about finding a simple, cost-effective solution that would fit into our operations. With Purestream's, we found modularity and reliability at a cost that was less than other options."
-Raymon Jones



Fig. 1



Fig. 2

Fig. 1
Complete IGF+
system set up.

Fig. 2
Water before and after
IGF+ treatment.

HOW IT WORKS:

- + Oily water is treated on the fly with water clarification chemicals and mixed while being pumped to the flotation unit. The water/chemical mixture is blended with a stream of water from the flotation cell which has been combined with fine air bubbles. After the blending process, the treated influent undergoes a loss of fluid velocity in the flotation unit before it moves across coalesce media. The coalesce media cause both oil and flocculent particles to continue with air bubbles which are then floated to the surface as a floc. This floc is removed from the surface in a froth skim system. De-oiled water exits through the bottom of the flotation unit and is transferred to the nutshell filter using a transfer pump.
- + The nutshell filter remains in line while an external scrub tube is serviced resulting in no loss of production. Purestream's under drain system is proven to take high differential pressure without the worry of screen collapse or loss of media.
- + The nutshell filter is a down-flow filter that is loaded with approximately 54" of filtration media. The filter is back washed at the service rate in an up-flow direction and media is re-circulated through a scrub tube to remove oil and solids before the media is returned back into the filter.